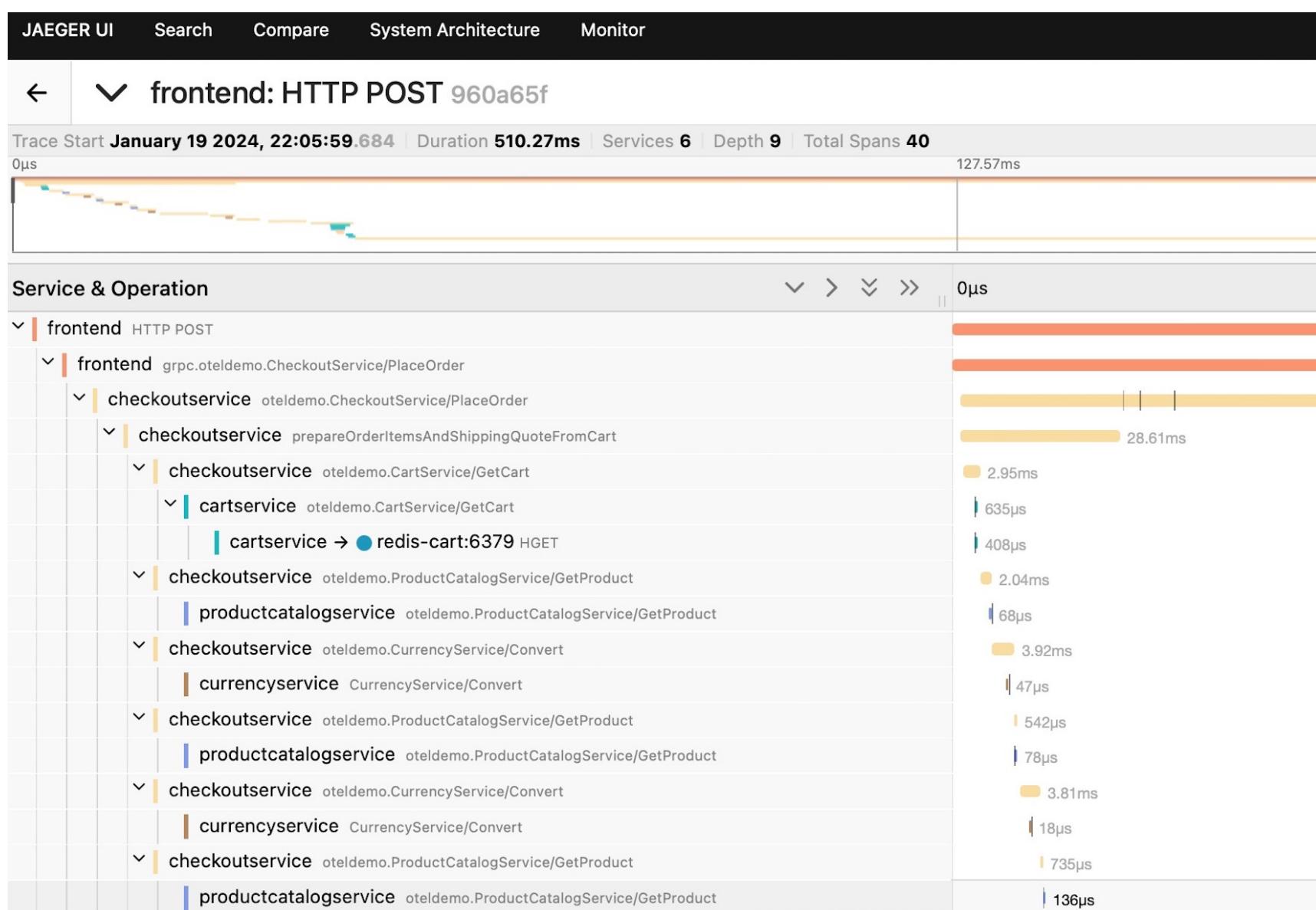
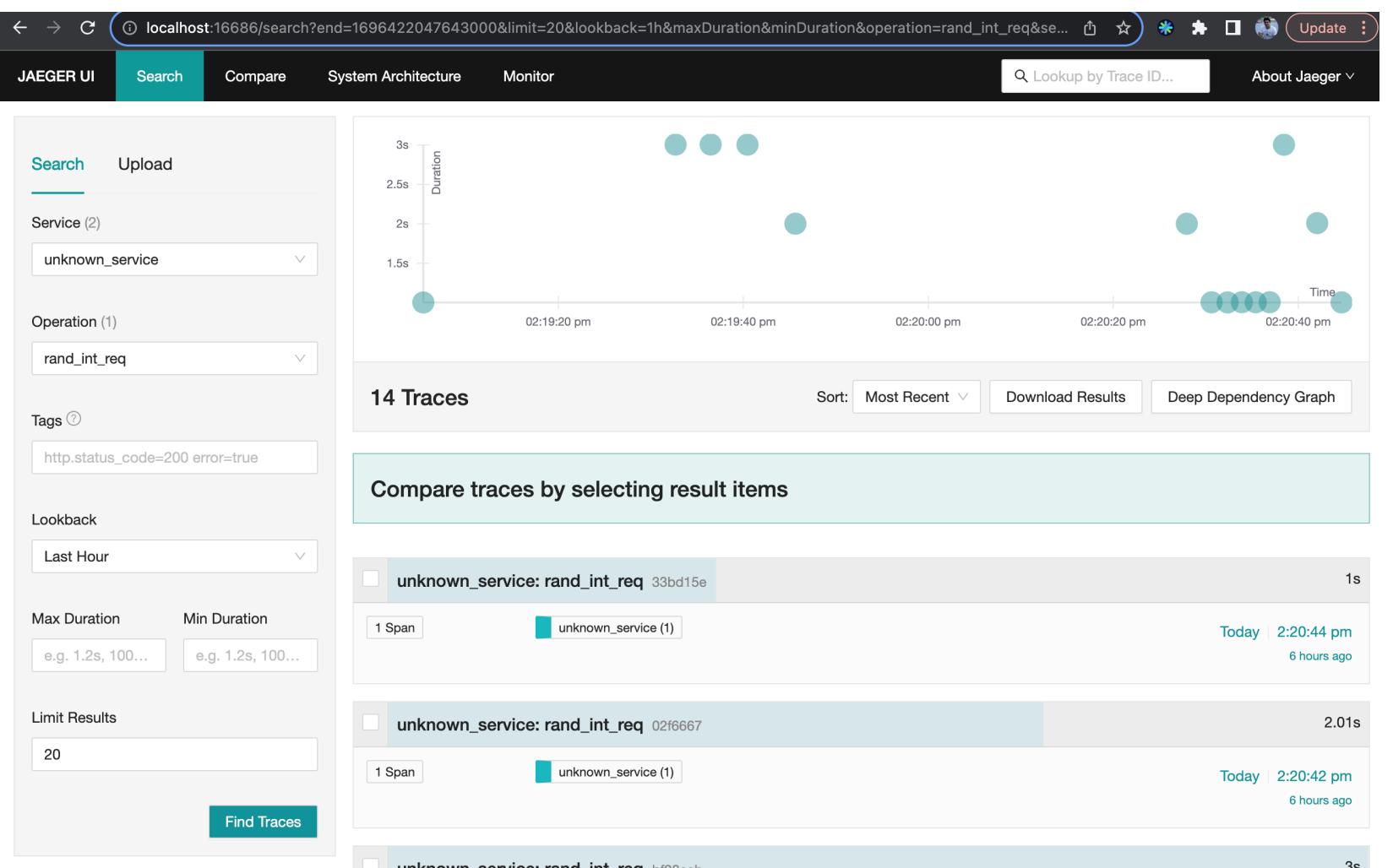
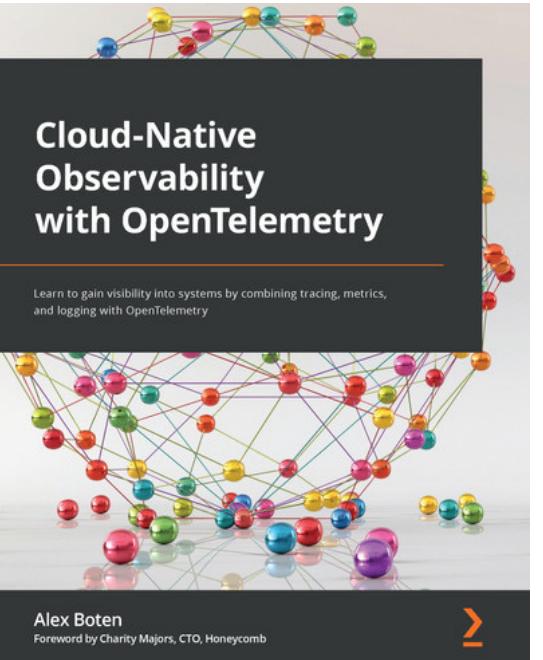


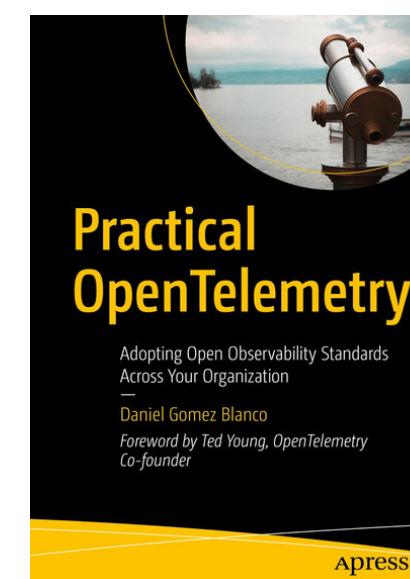


Distributed Tracing



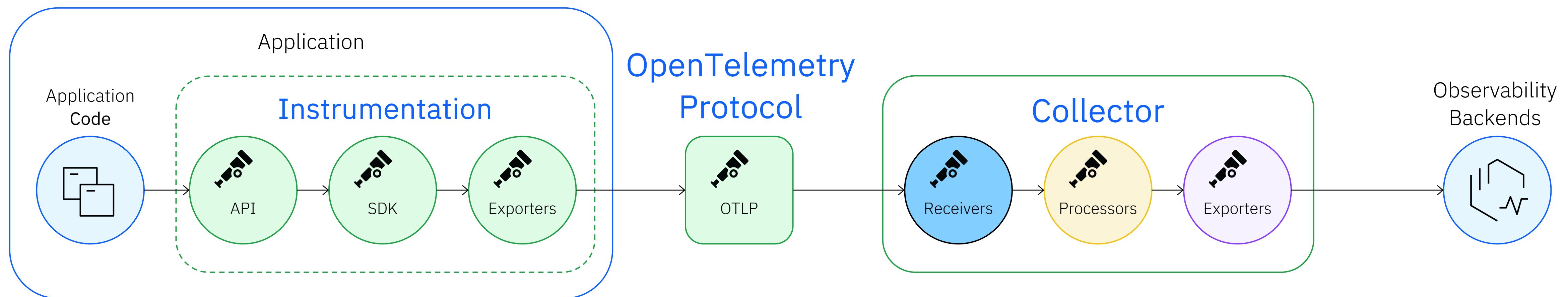
Logging & Event Collection

Telemetry Distribution



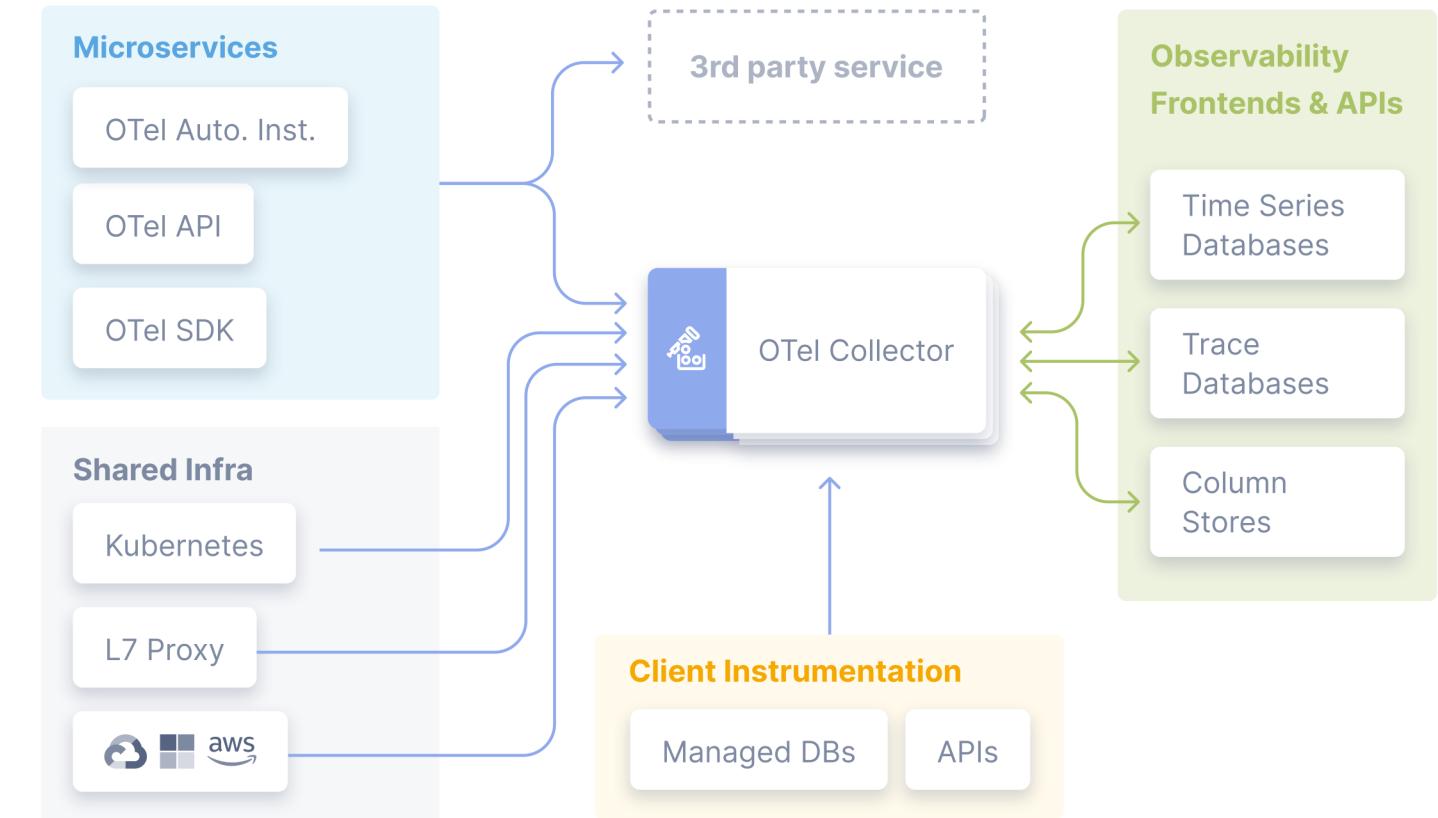
Observability ??  
Metric Monitoring  
Code Instrumentation

# What is OpenTelemetry?



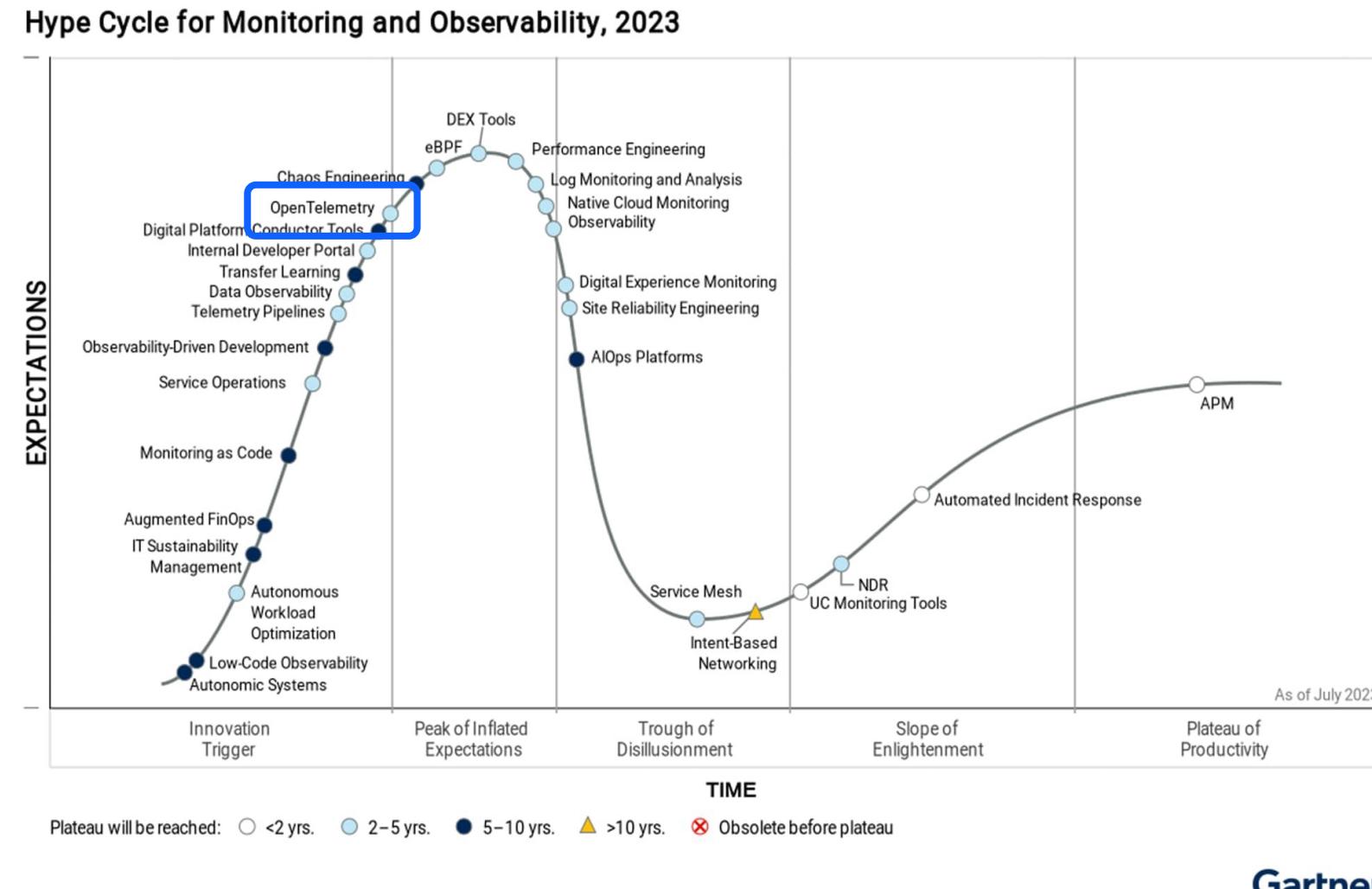
OpenTelemetry is a vendor-agnostic observability framework that assists in generating, processing, and distributing telemetry data such as metrics, traces, and logs.

**OpenTelemetry's Mission:** to enable effective observability by making high-quality, portable telemetry ubiquitous.



# Why is OpenTelemetry important?

# Close to top of the hype curve!



# Hype Cycle for Monitoring, Observability and Cloud Operations, Gartner, 2023

OpenTelemetry is for  
Observability what Kubernetes  
is for application deployments.

Constantly growing ecosystem  
including all big players.

## Vendors

Vendors who natively support OpenTelemetry

A non-exhaustive list of organizations offering solutions that consume OpenTelemetry natively via [OTLP](#), such as observability backends and observability pipelines.

Some organizations provide a [distribution](#) (of customized OpenTelemetry components), that provides additional capabilities or for improved ease of use.

Organization <sup>1</sup>	OSS	Commercial	Distribution	Native OTLP	Learn more
Apache SkyWalking	Yes	No	No	Yes	<a href="http://skywalking.apache.org/">skywalking.apache.org/...</a> ↗
Fluent Bit	Yes	No	No	Yes	<a href="http://docs.fluentbit.io/...">docs.fluentbit.io/...</a> ↗
Jaeger	Yes	No	No	Yes	<a href="http://www.jaegertracing.io/...">www.jaegertracing.io/...</a> ↗
ClickHouse	Yes	Yes	No	No	<a href="http://github.com/...">github.com/...</a> ↗
Grafana Labs	Yes	Yes	Yes	Yes	<a href="http://grafana.com/...">grafana.com/...</a> ↗
GreptimeDB	Yes	Yes	Yes	Yes	<a href="http://docs.greptime.com/...">docs.greptime.com/...</a> ↗
Highlight	Yes	Yes	Yes	Yes	<a href="http://www.highlight.io/...">www.highlight.io/...</a> ↗
HyperDX	Yes	Yes	Yes	Yes	<a href="http://www.hyperdx.io/...">www.hyperdx.io/...</a> ↗
observIQ	Yes	Yes	Yes	Yes	<a href="http://docs.bindplane.observiq.com">docs.bindplane.observiq.com</a> ↗
OpenObserve	Yes	Yes	No	Yes	<a href="http://openobserve.ai/...">openobserve.ai/...</a> ↗
qryn	Yes	Yes	Yes	Yes	<a href="http://qryn.metrico.in/...">qryn.metrico.in/...</a> ↗
Red Hat	Yes	Yes	Yes	Yes	<a href="http://docs.openshift.com/...">docs.openshift.com/...</a> ↗
SigNoz	Yes	Yes	Yes	Yes	<a href="http://signoz.io">signoz.io</a> ↗
Tracetest	Yes	Yes	No	Yes	<a href="http://docs.tracetest.io/...">docs.tracetest.io/...</a> ↗
VictoriaMetrics	Yes	Yes	No	Yes	<a href="http://github.com/...">github.com/...</a> ↗
Alibaba Cloud	No	Yes	No	Yes	<a href="http://www.alibabacloud.com/...">www.alibabacloud.com/...</a> ↗
AppDynamics (Cisco)	No	Yes	Yes	Yes	<a href="http://docs.appdynamics.com/...">docs.appdynamics.com/...</a> ↗
Aria by VMware (Wavefront)	No	Yes	No	Yes	<a href="http://docs.wavefront.com/...">docs.wavefront.com/...</a> ↗
Aspecto	No	Yes	Yes	Yes	<a href="http://www.aspecto.io">www.aspecto.io</a> ↗
AWS	No	Yes	Yes	No	<a href="http://aws-otel.github.io">aws-otel.github.io</a> ↗

OpenTelemetry is a [CNCF incubating](#) project.  
OpenTelemetry is the second most active  
CNCF project.

For most recent list, please visit  
[OpenTelemetry Vendors](#).

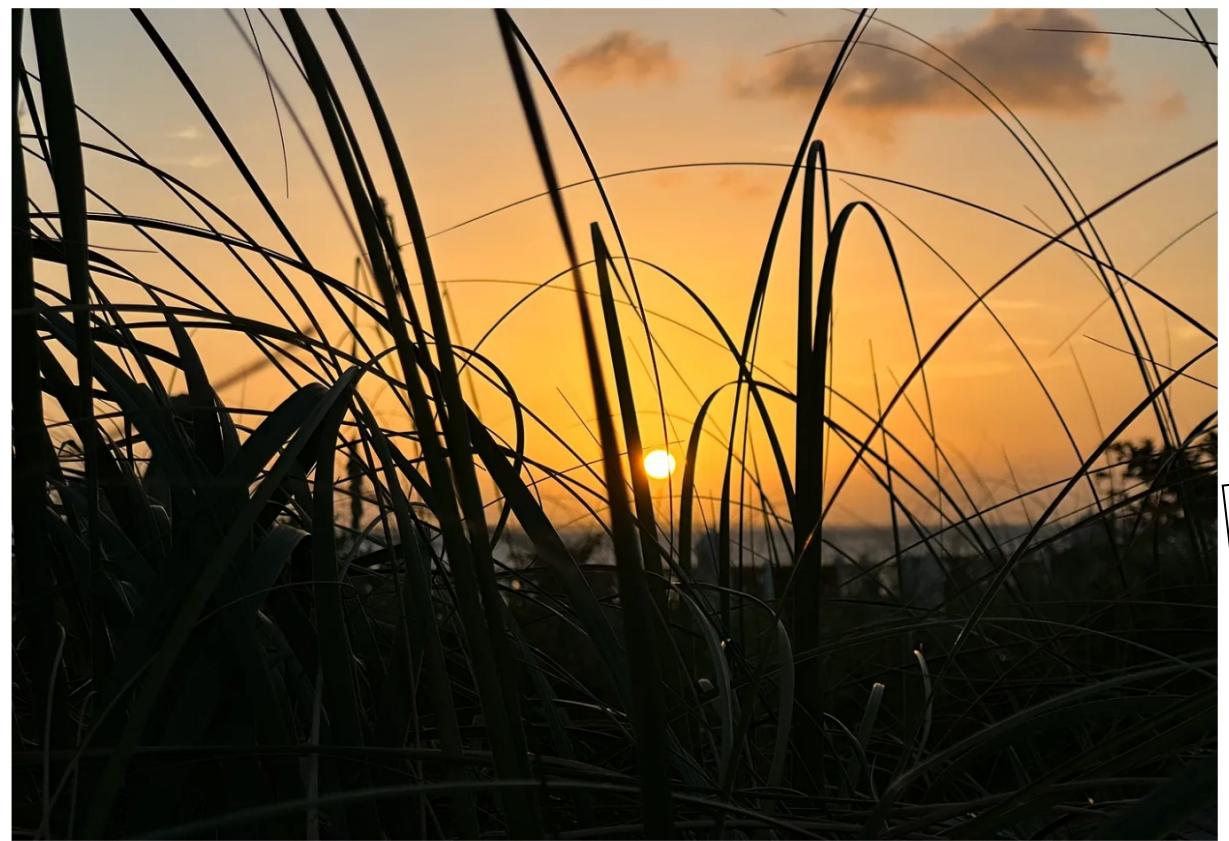
# How to contribute?

## How Can I Contribute to OpenTelemetry?

5 ways of contributing to OTel: through docs contributions, blogging, joining the End User Working Group, contributing to the OTel Demo, or joining a SIG.

Adri Villela · Follow  
Published in Cloud Native Daily · 6 min read · Aug 30, 2023

13 · Q · B · U



Sunset in Turks and Caicos. Photo by Adri Villela.

Are you an OpenTelemetry (OTel) practitioner? Have you ever wanted to contribute back to OpenTelemetry, but didn't know where to begin? Well, my friend, you've come to the right place!

Today, I'll share some ways in which you can contribute to this vibrant and welcoming open-source community!

Language Traces Metrics Logs

Contribute to code instrumentation support

Language	Status	Status	Status
Erlang/Elixir	Stable	Experimental	Experimental
Go	Stable	Stable	In development
Java	Stable	Stable	Stable
JavaScript	Stable	Stable	Development
PHP	Stable	Stable	Stable
Python	Stable	Stable	Experimental
Ruby	Stable	In development	In development
Rust	Beta	Alpha	Alpha
Swift	Stable	Experimental	In development

Tier 3 - Community Support

Tier 3 platforms are *guaranteed to build*. Precompiled binaries are made available as part of the release process and as result of a cross compile build on Linux amd64 but the binaries are not tested at all. Any build failure delays the release of the binaries for the respective platform but not the collector distribution for all other platforms. Defects are addressed based on community contributions. Core developers might provide guidance or code reviews, but direct fixes may be limited.

Elevate platform support

Platform	Maintainer
darwin/amd64	@h0cheung
darwin/arm64	@MovieStoreGuy
linux/arm64	@atoulme
linux/386	@astencel-sumo
linux/arm	@Wal8800, @atoulme
linux/ppc64le	@IBM-Currency-Helper, @adilhusain-s, @seth-prya
linux/s390x	@bwalk-at-ibm, @rrschulze
windows/386	@pjanotti

Implementation SIGs

Name	Meeting Time	Meeting Notes	Slack Channel
Maintainer	Every Month		
Instrumentation	6:00 PT	<a href="#">Google Doc</a>	#otel-android
			<a href="#">calendar-android@opentelemetry.io</a>
Collector	Every Wednesday at 09:00 PT plus monthly on first Wednesday at 00:00 PT and on third Wednesday at 16:00 PT	<a href="#">Google Doc</a>	#otel-collector
C++: SDK	Every week alternating between Monday at 13:00 PT and Wednesday at 9:00 PT	<a href="#">Google Doc</a>	#otel-cpp
.NET: Automatic Instrumentation	Every Wednesday at 9:00 PT	<a href="#">Google Doc</a>	#otel-dotnet-auto-instr
.NET: SDK	Every Tuesday alternating between 9:00 and 16:00 PT	<a href="#">Google Doc</a>	#otel-dotnet
Erlang/Elixir: SDK	Every other Thursday at 9:00 PT	<a href="#">Google Doc</a>	#otel-erlang-elixir
GoLang: SDK	Every Thursday alternating between 10:00 and 15:00 PDT	<a href="#">Google Doc</a>	#otel-go
			<a href="#">calendar-go@opentelemetry.io</a>

Contribute to Specification or Implementation SIGs

71 repositories

- [opentelemetry-java-contrib](#) Public  
Java Apache License 2.0 105 ⭐ 127 ⚡ 44 13 · Updated 2 minutes ago
- [opentelemetry-collector-contrib](#) Public  
Contrib repository for the OpenTelemetry Collector  
opentelemetry open-telemetry
- [opentelemetry-java-examples](#) Public  
Java Apache License 2.0 89 ⭐ 144 ⚡ 6 160 · Updated 10 minutes ago
- [opentelemetry-dotnet](#) Public  
The OpenTelemetry .NET Project  
The OpenTelemetry .NET Project
- [opentelemetry-java-instrumentation](#) Public  
OpenTelemetry auto-instrumentation and instrumentation libraries for Java  
Java Apache License 2.0 722 ⭐ 1.6k ⚡ 333 55 · Updated 29 minutes ago
- [opentelemetry-collector](#) Public  
OpenTelemetry Collector  
opentelemetry open-telemetry monitoring metrics telemetry observability
- [opentelemetry-helm-charts](#) Public  
OpenTelemetry Helm Charts  
Smarty Apache License 2.0 397 ⭐ 311 ⚡ 78 2 · Updated 1 hour ago
- [opamp-go](#) Public  
OpAMP protocol implementation in Go  
Go Apache License 2.0 53 ⭐ 104 ⚡ 23 9 · Updated 1 hour ago

71 repositories

Contribute to Specification or Implementation SIGs

71 repositories – work on issues and pull requests